

Claims

- [c1] 1. An improved programmable digital thermostat having user input means for selecting a desired temperature setting, the improvement comprising:
 - activation means for running a single program that maintains the last selected temperature setting during a predetermined non-setback time period, and offsets the last selected temperature setting by a predetermined amount during a predetermined setback time period, wherein the activation means is selected by a single action of the user.
- [c2] 2. The thermostat according to claim 1, wherein the activation means comprises a single button that runs the program when pressed only one time.
- [c3] 3. The thermostat according to claim 1, wherein the activation means comprises at least two buttons that run the program when simultaneously pressed only one time.
- [c4] 4. The thermostat according to claim 2, wherein the predetermined non-setback time period is substantially the time period the user is awake during the day.

- [c5] 5. The thermostat according to claim 4, wherein the pre-determined setback time period is substantially the time period the user is asleep during the night.
- [c6] 6. The thermostat according to claim 5, wherein the pre-determined amount for offsetting the last selected temperature setting is in the range of 5 to 15 degrees Fahrenheit.
- [c7] 7. An improved programmable digital thermostat having user input means for selecting a desired temperature setting, the improvement comprising:
 - time setting means for receiving a broadcast time signal and automatically storing the local time in the thermostat for the user; and
 - activation means for running a single program that maintains the last selected temperature setting during predetermined non-setback time periods, and offsets the last selected temperature setting by a predetermined amount during predetermined setback time periods, wherein the activation means is selected by a single action of the user.
- [c8] 8. The thermostat according to claim 7, wherein the activation means comprises a single button that runs the program when pressed only one time.

- [c9] 9. The thermostat according to claim 7, wherein the activation means comprises at least two buttons that run the program when simultaneously pressed only one time.
- [c10] 10. The thermostat according to claim 9, wherein the predetermined non-setback time period is substantially the time period the user is awake during the day.
- [c11] 11. The thermostat according to claim 10, wherein the predetermined setback time period is substantially the time period the user is asleep during the night.
- [c12] 12. The thermostat according to claim 11, wherein the predetermined amount for offsetting the last selected temperature setting is in the range of 5 to 15 degrees Fahrenheit.